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Yedavelli S P; Guo L; Daou M E; Srivastava P K; Mittelman A; Tiwari R K Department of Microbiology and Immunology, New York Medical College, Valhalla, NY 10595, USA.
CA64394 (NCI) 12 cancer and l1 1481 CANCER AND L1 Entered STN: 19990925 Last Updated on STN: 19990925 Entered Medline: 19990916 Greece ANSWER 1 OF 7 1999356065 Journal code: 9810955. ISSN: 1107-3756. INTERNATIONAL 99356065 Priority Journals Journal; Article; and vaccine? 162 L2 AND VACCINE? and co(a)admin? or coadmin? 21654 L2 AND CO(A) ADMIN? OR COADMIN? ' ENTERED AT 09:02:10 ON 26 JUL 2002 2002 Cambridge Scientific Abstracts PubMed ID: 10425272 L4 AND LIVE JOURNAL OF MOLECULAR MEDICINE, (1999 Sep) MEDLINE (JOURNAL ARTICLE) MEDLINE PROTIEN OR ASH (CSA) ENTRY 0.21 4 (3) 243-8 TOTAL SESSION 0.21

AB Tumor-derived purified heat shock protein (HSP), gp96, has tumor protective effect in a number of experimental cancers that include fibrosarcoma, hepatoma, and spindle cell carcinoma. The rationale for using gp96 as a vaccinating agent stems from the discovery that HSPs, including gp96, chaperone antigenic peptides for eventual recognition and elicitation of an immune response. The immune response from which they are derived. The long-term objective of our studies is to develop a vaccine for primary and metastatic prostate cancer using tumor-derived HSPs. In the present study, we report our results on the tumor protective effect of irradiated Dunning G cells, or purified preparations of 996 peptide complexes as a tumor vaccine. Tumor incidence, latency, and tumor growth were the end points of measurement. Tumor bearing Copenhagen rats, made free of disease by surgical resection of the tumors resisted a fresh challenge of live Dunning G tumor cells. Vaccination with irradiated whole called failed to elicit any resistance to tumor growth. Vaccination with suggests that tumor derived gp96-peptide complexes delayed both incidence and growth of Dunning G induced tumors. Inhibition of tumor growth was observed when gp96 was administered after tumor induction. Our data suggests that tumor derived gp96-peptide complexes can be used as an effective prophylactic and therapeutic agent even in poorly immunogenic cancer such as prostate cancer. Further investigations will determinants and experimental conditions for its optimal activity. Check Tags: Animal; Male; Support, Non-U.S. Gov't; Support, U.S. Gov't, Non-P.H.S.

*Antigens. Neoplasm: TU, therapeutic use
Disease Models, Animal Tumor Cells, Cultured

O (Antigens, Neoplasm); O (Cancer Vaccines); O (sarcoma glycoprotein gp96 (Heat-Shock Proteins); O (Neoplasm Proteins); O (sarcoma glycoprotein gp96 English
MEDLINE 99356065 Preventive and therapeutic effect of tumor derived heat shock protein, gp956, in an experimental prostate cancer model.
Yedavelli S P, Guo L, Daou M E, Srivastava P K, Mittelman A, Tiwari R K Department of Microbiology and Immunology, New York Medical College, Teach of the control of the co Tumor-derived purified heat shock protein (HSP), gp96, has protective effect in a number of experimental cancers that Journal code: C8H. ISSN: 1107-3756. Journal: Article; (JOURNAL ARTICLE) Valhalla, NY 10595, USA INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (1999). Vol. 4, No. 3, pp 99356065 1999356065 ANSWER 2 OF 7 rejection antigens) Neoplasm Proteins: TU, therapeutic use Prostatic Neoplasma: IM, immunology Prostatic Neoplasma: PA, pathology *Prostatic Neoplasms: TH, therapy Heat-Shock Proteins: TU, therapeutic use Time Factors Rats, Inbred Strains Immunization 7 CANCERLIT CANCERLIT tumor

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we report our results on the tumor protective effect of irradiated Dunning
G cells, or purified preparations of 996-peptide complexes as a tumor
vaccine. Tumor incidence, latency, and tumor growth were the end
points of measurement. Tumor bearing Copenhagen rate, made free of disease
by surgical resection of the tumors resisted a fresh challenge of
live Dunning G tumor cells. Vaccination with irradiated whole
cells failed to elicit any resistance to tumor growth. Vaccination with
Dunning G derived purified gp96-peptide complexes delayed both incidence
and growth of Dunning G induced tumors. Inhibition of tumor growth was
observed when gp96 was administered after tumor induction. Our data
suggests that tumor derived gp95-peptide complexes can be used as an
effective prophylactic and therapeutic agent even in poorly immunogenic
cancer such as prostate cancer. Further investigations
will determine specificity of action and define the immunological
determinants and experimental conditions for its optimal activity.
CT Check Tags: Animal; Male; Support, U.S. Gov't, P.H.S.
*Antigens, Neoplasm: TU, therapeutic use
Cancer Vaccines: TU, therapeutic use
Disease Models, Animal.
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Administration of tumor derived heat shock proteins (HSP) has been shown to edicit protective immunity to mouse fibrosarcomas, spind cell carcinomas, lung carcinomas, a melanoma, a leukemia and a rat hepatocarcinoma. These include spontaneous and experimentally induced cancers. Immunogenicity of tumor-derived HSP preparations results by the chaperoning of a broad array of antigenic peptides generated in a given cell by HSPs. We have extended
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cancer derived purified heat shock protein, gp96, elicits protective immunity in a rat prostate cancer model (Meeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tiwari R K; Li G; Osborne M P; Moroson H; Daou M; Srivastava P K
Strang-Cornell Cancer Res. Lab., Cornell Univ. Med. Coll., New York, NY
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ISSN: 0197-016X.
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Prostatic Neoplasms:
*Prostatic Neoplasms:
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Time Factors
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (sarcoma glycoprotein gp96 rejection antigens); 0 (Antigens, Neoplasm); (Cancer Vaccines); 0 (Heat-Shock Proteins); 0 (Neoplasm
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therapy
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Dunning G cells that produce tumors in syngeneic Copenhagen rats. We show that (i) Dunning G is poorly immunogenic in that vaccination of syngeneic rats with 20 million cancer cells does not elicit protective immunity to live challenges of Dunning G cells; (ii) notwithstanding the poor immunogenicity of intact Dunning G cells, purified gp96 HSP preparations derived from Dunning G elicit a protective immune response in syngeneic rats. This response was not observed in animals immunized with rat serum albumin, another peptide in animals immunized with rat serum albumin, another peptide paradigm to a spontaneous prostate cancer model using

binding protein.

0 (darcoma glycoprotein gp96 rejection antigens); 0 (Antigens, Neoplasm);
0 (Cancer Vaccines)

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Using heat shock proteins to increase immune response Srivastava, Pramod K. University of Connecticut Health Center, USA POT Int. Appl., 80 pp.

CODEN: PIXXD2

A61K

Section cross-reference(s): 15 (Pharmacology)

PI PATENT NO. NO 2002034205 A2 KIND DATE APPLICATION NO. DATE

PRAI AB

Wi AU, CA, JP

We AI, CA, JR

RW. AI, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR

20001693

AB The invention discloses using heat shock proteins (HSPs) to amplify the immune response initiated by a vaccine.

HSPs can be introduced into a subject before, concurrently, or after the administration of a vaccine. The HSPs can also be used to activate antigen presenting cells which are then introduced into a subject in conjunction with a vaccine. The HSPs used in the methods of the invention can be unbound or can be covalently or non-covalently bound to a peptide that is unrelated to the waccine. The subject is preferably mammalian, and most preferably human. It is shown by way of example herein that HSPs induces secretion of cyrokines and surface expression of antigen-presenting and co-stimulatory mols. The invention also encompasses methods of treatment and prevention of cancer and infectious diseases.

ST antitumor heat shock protein vaccine combination immune response

TI Antitumor agents

response) (Ewing's sarcoma; using heat shock proteins to increase immune

ij Heat-shock proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(HSP 70, and peptide complexes; using heat shock proteins to increase immune response)

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (USES) 40, and peptide complexes; using heat shock proteins to Heat-shock proteins

Antitumor agents disease inhibitors; using heat shock proteins to

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increase immune response)

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Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(NF-.kappa.B (nuclear factor .kappa.B); using heat shock proteins to increase immune response)

T

H Tumor necrosis factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNF-.alpha.; using heat shock proteins to increase immune response) Bone marrow

proteins to increase immune response) (Waldenstroem's macroglobulinemia, inhibitors; using heat shock

H Antitumor agents

increase immune (Waldenstroem's macroglobulinemia; using heat shock proteins to response

TI

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Kidney, nec (Wilms' Antitumor agents (Wilms' tumor; using neoplasm heat shock proteins to increase immune response)

inhibitors; using heat shock proteins to increase immune

response) Nerve, neoplasm

immune response)
Antitumor agents (acoustic neuroma, inhibitors; using heat shock proteins to increase

II

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response) (acoustic neuroma; using heat shock proteins to increase immune

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Antitumor agents
(acute lymphocytic leukemia; using heat shock proteins to increase immune response)
Antitumor agents
(acute myelogenous leukemia, myeloblastic, monocytic; using heat shock proteins to increase immune response)
Antitumor agents
(acute promyelocytic leukemia; using heat shock proteins to increase immune response)
Antitumor agents
(acute promyelocytic leukemia; using heat shock proteins to increase immune response)
Antitumor agents

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II II

(adenocarcinoma; using heat shock proteins to increase immune response) Heat-shock proteins RL: shock proteins (Biological study) (Biological study) (and peptide complexes, mammalian and human; using heat shock proteins

Astrocyte to increase immune response)

(astrocytoma, inhibitors; using heat shock proteins to increase immune

Skin, Antitumor agents (astrocytoma; using heat shock proteins to increase immune response)

increase immune response) n, neoplasm (basal cell carcinoma, inhibitors; using heat shock proteins ដ

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Antitumor agents (basal cell carcinoma; using heat shock proteins to increase immune

Ħ Antitumor agents

(bile duct carcinoma; using heat shock proteins to increase immune

IŢ Biliary tract response)

increase immune response) (bile duct, carcinoma, inhibitors; using heat shock proteins

Antitumor agents (bladder carcinoma; using heat shock proteins to increase

Antitumor agents (bronchi carcinoma; using heat shock proteins to increase immune

response)

Bladder

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response)
Uterus, neoplasm
(cervix, inhibitors; using heat shock proteins to increase Antitumor agents
(chronic lymphocytic leukemia; using heat shock proteins to increase immune response)
Antitumor agents immune response)
Antitumor agents
(chondrosarcoma; using Lung, neoplasm
Sebaceous gland
(carcinoma, inhibitors; using heat shock proteins to increase immune (ependymoma; using heat shock proteins to increase immune response) Antitumor agents (epithelium tumor inhibitors; using heat shock proteins to increase Antitumor agents (craniopharyngioma; Intestine, neoplasm (colon, carcinoma, inhibitors; using heat shock proteins to increase immune response)
Antitumor agents
(colon carcinoma; using heat shock proteins to increase immune response)
Antitumor agents Chorion Antitumor agents (chordoma; using Notechord Cartilage Antitumor agents (cervix; using heat shock proteins to increase immune response) immune response) Antitumor agents immune response)
Antitumor agents immune response)
Pituitary gland, anterior lobe Antitumor agents Brain, neoplasm Animal virus Infection response) response) (ependymoma, inhibitors; using heat shock proteins (echinovirus; using heat shock proteins to increase immune response) (disease; using heat shock proteins to increase immune response) immune response) (craniopharyngioma, response) (chronic myelocytic leukemia; using heat shock proteins to increase (choriocarcinoma; using heat shock proteins to increase response) (chordoma, inhibitors; (chondrosarcoma, (cystadenocarcinoma; using heat shock proteins to increase immune (cystadenocarcinoma, inhibitors; using heat shock proteins to increase (choriocarcinoma, inhibitors; using heat shock proteins to increase neoplasm heat shock proteins to increase immune inhibitors; using heat shock proteins to increase using heat shock proteins to increase inhibitors; using heat shock proteins using heat shock proteins to increase immune heat shock proteins to increase immune response) to increase immune immune response) to increase

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(erythroleukemia; using heat shock proteins to increase immune

(medulloblastoma; using heat shock proteins to increase immune

ij Η H H Ħ T H T H H H ij Ħ H H ï T H H I Η (lung small-cell carcinoma; using heat shock proteins to immune response)
Lymphatic System immune response)
Blood vessel, neoplasm
(hemangioma, inhibitors, hemangioblastoma; using heat shock proteins increase immune response)
Liver, neoplasm (gp96; using heat shock proteins to increase immune response)
Peptides, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USSS (Uses)
(heat shock protein complexes; using heat shock proteins to increase Glycoproteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) Antitumor agents (mammary gland; using heat shock proteins to increase immune response) Brain, neoplasm (medulloblastoma, inhibitors; using heat shock proteins to increase proteins to increase immune response)
Antitumor agents
(lung carcinoma; using heat shock proteins to increase immune response) Vaccines Antitumor agents (leiomyosarcoma; using heat shock proteins to increase immune response) ${\tt Adipose}$ tissue, neoplasm (hepatoma; using heat shock proteins to increase immune response) Hodgkin's disease Ovary, neoplasm Antitumor agents (heavy chain; using heat shock proteins to increase immune response) $\mbox{\bf Antitumor\ agents}$ Antitumor agents (glioma; using heat shock proteins to increase immune response) Neuroglia Antitumor agents Antitumor agents Antitumor agents Antitumor agents Pancreas, Disease, animal Antitumor agents Testis, neoplasm Papilloma response) response) immune response) response) immune response) (hepatoma, inhibitors; using heat shock proteins to increase immune (live, attenuated, subunit, (liposarcoma; using heat shock proteins to increase immune (liposarcoma, inhibitors; using (hemangioma, hemangioblastoma; using heat shock proteins to increase (glioma, inhibitors; using heat shock proteins (fibrosarcoma; using heat shock proteins to increase immune response) (lymphangiosarcoma; (lymphangiosarcoma, (inhibitors; using heat shock proteins to increase immune response) neoplasm using inhibitors; heat shock proteins to increase immune DNA and RNA; using heat shock heat shock proteins to increase using heat proteins to to increase immune increase immune response) ដ

ä Ξ ï Ţ T H ij Ħ Ξ Ħ Η II H Ħ H T T I Ħ Ħ Ħ H Ħ (prostate gland; using heat shock proteins to increase immune response) Kidney, neoplasm (renal cell carcinoma, inhibitors; using heat shock proteins to response)
Antitumor agents
(Osteosarcoma; using heat shock proteins to increase immune response) Antitumor agents (multiple myeloma; using (pancreas; using heat Antitumor agents Prostate gland Sweat gland Mesothelium Antitumor agents Antitumor agents Antitumor agents (ovary; using heat shock proteins to increase immune response) Neuroglia Antitumor agents Antitumor agents Antitumor agents Antitumor agents Meninges Antitumor agents Antitumor agents Antitumor agents Antitumor agents Mammary gland response) response) response) adenocarcinoma, and embry increase immune response) (pinealoma, inhibitors; using heat shock proteins to (pinealoma inhibitors; using heat shock proteins to increase immune (osteosarcoma, inhibitors; using heat shock proteins to increase immune (oligodendroglioma; using heat shock proteins to increase (non-Hodgkin's lymphoma; using heat shock proteins (neuroblastoma; using heat shock proteins to increase immune response) immune response) (neuroblastoma, inhibitors; using heat shock proteins (neoplasm, inhibitors; using heat shock proteins to increase (myxosarcoma, angiosarcoma, endotheliosarcoma, papillary adenocarcinoma, and embryonal carcinoma; using heat shock proteins (mesothelioma; using heat shock proteins to increase (mesothelioma, (meningioma; using heat shock proteins to increase immune response) (meningioma, inhibitors; using heat shock proteins to increase immune (melanoma; using heat shock proteins to increase immune response) (papilloma inhibitors; using heat shock proteins to increase immune (oligodendroglioma, myelomonocytic leukemia; using heat shock proteins to increase immune neoplasm inhibitors; using inhibitors; using heat shock proteins to increase shock proteins heat shock proteins heat shock proteins to to increase immune ç increase immune ç immune response) increase increase immune to increase increase immune

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Hepatitis A virus
Hepatitis B virus
Hepatitis C virus
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Testis, neoplasm
(seminoma, inhibitors; using heat shock proteins to increase immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eye,
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(sweat gland, using heat shock proteins to increase immune response)
Antitumor agents
Antitumor agents
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Influenza
Legionella
Leishmania
                                                                                                                                                                                                                                                                                                                                                                                                                            (tumors, inhibitors; using response)
Adenoviridae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (tumor; using heat shock proteins to increase Synovial membrane % \left( 1\right) =\left\{ 1\right\} =\left\{ 1\right\} 
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Fungicides
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Antiviral agents
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Human echovirus
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                                                         [mmunity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         increase immune response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (seminoma; using heat shock proteins to increase immune response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (squamous cell carcinoma; using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (small-cell carcinoma, inhibitors; using heat shock proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (retinoblastoma; using heat shock proteins to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rhabdomyosarcoma; using heat shock proteins to increase immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (retinoblastoma, inhibitors; using heat shock proteins to increase
                                                                                          immunodeficiency virus immunodeficiency virus
                                                                                                                           herpesvirus 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 heat shock proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        heat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        shock proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    heat shock proteins to increase immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         enisu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             heat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immune response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         increase immune response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    response)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         proteins
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FAN SEE SEE IN TO A LS T T H PI H Ţ . N Human herpesvirus 3 (varicella from; using heat shock proteins to increase immune: 83869-56-1, GM-CSF RL: BSU (Biological study, unclassified); BIOL (Biological study) (using heat shock proteins to increase immune response) Calreticulin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(using heat shock proteins to increase immune response)
Antitumor agents (using heat shock proteins to increase immune response) Interleukin 12 Interleukin 1.0 Interle WO 2000020027 WO 2000020027 M Amp E Biotech A/s, Den. PCT Int. Appl., 220 pp. Novel methods for therapeutic vaccination Steinaa, Lucilla; Mouritsen, Soren; Nielsen, Klaus Gregorious; Haaning, Jesper; Leach, Dana; Dalum, Iben; Gautam, Anand; Birk, Peter; Karlsson, 5 PCT Int. Appl CODEN: PIXXD2 PATENT NO. 15-2 (Immunochemistry) Trypanosoma Rubella virus Rickettsia Section cross-reference(s): 3, A61K039-00 English 2000:240985 CAPLUS ANSWER 5 OF 7 Rinderpest virus Rhinovirus Respiratory syncytial virus Radiotherapy apovaviridae Papillomavirus W: AE, J CU, GH, LR, RU, RU, VN, RW: GH, DK, CG, CG, CG, CG, response) vaccines; using heat shock proteins to increase immune CAPLUS AM, AT, CZ, DE, HR, HU, LT, LU, SE, SG, ZW, ZW, KE, LS, FR, FR, GA, A1 KIND 2 2 COPYRIGHT 2002 ACS AT, AU, DE, DK, ID, IL, LV, MD, SI, SK, AM, SD, GB, GR, GW, CW, 20000426 GB MAN SIV 20000413 heat shock proteins to increase immune response) 63 APPLICATION NO. (Biological study) TO RU REPORTER 19991005 무 유 g, CX 2 4 C 6 C GB 28468

> NO 2001001866 A 1998105
>
> PRAID IX 1998-1261 A 19981005
>
> PRAID IX 1998-12611 P 19981005
>
> WO 1999-105011P P 19981005
>
> AB A method is disclosed for inducing cell-mediated immunity against cellular antigens. More specifically, the invention provides for a method for inducing cytotoxic T-ymphocyte immunity against weak antigens, notably self-proteins. The method entails that antigen presenting cytotoxic T-ymphocyte immunity against weak antigen and at the same time present at least one CTL epitope of the weak antigen and at the same time presenting at least one foreign T-helper lymphocyte epitope. In a preferred embodiment, the antigen is a camear specific antigen, e.g. prostate specific membrane antigen (FSM), Her2, or FGF8b. The method can be exercised by using traditional polypeptide vaccination, but also by using live attenuated vaccines or nucleic acid vaccination. The invention furthermore provides immunogenic analogs of PSM, Her2 and FGF8b, as well as nucleic acid mols. encoding these analogs. Also vectors and transformed cells are disclosed. The invention also provides for a method for identification of immunogenic analogs of weak or non-immunogenic antigens.
>
> ST weak antigen vaccina cytotoxic T lymphocyte; tumor antigen T cell employee. TS ₽ PRAI EΡ 1117421 BE, CH, DE, LV, FI, RO 2 20010725 3, DK, ES, FR, EP 1999-945967 19991005 GB, GR, IT, LI, LU, NL, MC, IE, SI,

Mycobacterium

numps virus Measles virus

cell epitope vaccine

TI

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (17-lA; weak antigens inserted with foreign T cell epitope a Antigens

H Antigens RL: BSU (RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(AM-1; weak antigens inserted with foreign T cell epitope as

ij H RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (APC; weak antigens inserted with foreign T cell epitope as Antigens

ᇽ Antigens
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(APRIL; weak antigens inserted with foreign T cell epitope as

T Chemokines RL: BSU (B) Antigens
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(BAGE; weak antigens inserted with foreign T cell epitope as vaccines) vaccines) BSU (Biological study, unclassified); BIOL (Biological study) (C-X-C, Ena78; weak antigens inserted with foreign T cell epitope 28

Ţ CD antigens RL: BSU (Blological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (CD33; weak antigens inserted with foreign T cell epitope as

H Glycoproteins, specific or class RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (CD40-L (antigen CD40 ligand); weak antigens inserted with f cell epitope as vaccines) AGCTUGB) foreign

T Antigens RL: BSU (Biological study, unclassified); THU (Biological study); USES (Uses) (Therapeutic use); BIOL

(CD52; weak antigens inserted with foreign T cell epitope as vaccines)
IT Antigens
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL

IT Antigens
RL: BSU (Biological study, unclassified); THU (Therapeutic use); B:
(Biological study); USES (Uses)
(CDC27; weak antigens inserted with foreign T cell epitope as
vaccines)
IT Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(CO17-1A; weak antigens inserted with foreign T cell epitope as
vaccines)

H

Antigens

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (DCC (deleted in colorectal cancer); weak antigens inserted with foreign T cell epitope as vaccines)

IT Antigens

IT Antigens
RL; BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(DCR3; weak antigens inserted with foreign T cell epitope as
vaccines)
Proteins, Specific or class

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USSS (Uses)
(B6, weak antigens inserted with foreign T cell epitope as vaccines)
Transcription factors

IT Transcription factors
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(E7); weak antigens inserted with foreign T cell epitope as vaccines)
IT Hematopoietin receptors

IT Hematopoletin receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(FLT3 receptors; weak antigens inserted with foreign T cell epitope as vaccines)
IT Glycoproteins, specific or class

vaccines)
Glycoproteins, specific or class
Glycoproteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(GP1; weak antigens inserted with foreign T cell epitope as
vaccines)

IT Glycoprotesins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(H-CAM (homing cell adhesion mol.); weak antigens inserted with foreign
T cell epitope as vaccines)
IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(H-ras; weak antigens inserted with foreign T cell epitope as

IT Antigens RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HMTV; weak antigens inserted with foreign T cell epitope as vaccinos)

vaccinos)

IT Heat-shock proteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(HSP 70; weak antigens inserted with foreign T cell epitope as vaccines)
IT Heat-shock proteins
RL: THU (Therapeutic use): RTOL (Piccine)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HSP 90; weak antigens inserted with foreign T cell epitope as vaccines)

IT Immunoglobulin receptors RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (IgE type II; weak antigens inserted with foreign T cell epitope as

IT Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(K.-ras, weak antigens inserted with foreign T cell epitope a

vaccines)

98

IT Lipoprotein receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(LDL, fusion with FUT or fucosyltransferase; weak antigens inserted with foreign T cell epitope as vaccines)
IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Biological study); USES (USES)

(MCP (membrane cofactor protein); weak antigens inserted with foreign T cell epitope as vacations)

IT Multidrug resistance proteins
Multidrug resistance proteins
Multidrug resistance proteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(MDR1; weak antigens inserted with foreign T cell epitope as

(MDRI; weak antigens inserted with foreign T cell epitope as vaccines)
IT Histocompatibility antigens
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(MMC (major histocompatibility complex), class I; weak antigens inserted with foreign T cell epitope as vaccines)

(MACLOGICAL STUDY); PROC (PROCES)

(MMC (major histocompatibility complex), class I; weak antigens inserted with foreign T cell epitope as vaccines)

IT Histocompatibility antigens

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(MMC (major histocompatibility complex), class II; weak antigens inserted with foreign T cell epitope as vaccines)

IT Diglycerides
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(N-acyl; weak antigens inserted with foreign T cell epitope as
vaccines)

IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
CACTAB; weak antigens inserted with foreign T cell epicope as vaccines)
IT Glycoproteins, specific or class

IT Glycoproteins, specific or class
Glycoproteins, specific or class
RL: THU (Therapeutic use), BIOL (Biological study); USES (Uses)
(P170; weak antigens inserted with foreign T cell epitope as
vaccines)
Phosphoproteins

Phosphoproteins
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(P210bcr-c-abl; weak antigens inserted with foreign T cell epitope as vaccines)

(P210bor-c-abl; weak antigens inserted with foreign T cell epitope as vaccines)
IT Prostate-specific antigen
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PSA and PSM; weak antigens inserted with foreign T cell epitope as

(Inc. (inc.apeuric use); Blow (stological study); Uses (uses)

(ISA) and PSM; weak antigens inserted with foreign T cell epitope as vaccines)

IT Hemopoletins

RI: THI (Theraneutic use): BIOL (Biological study): USES (Uses)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Progenipoietin; weak antigens inserted with foreign T cell epitope as
vaccines)
IT Transcription factors

vaccines)
Transcription factors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Rb; weak antigens inserted with foreign T cell epitope as
vaccines)

Ħ H T H ij T H ij H RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (TAG-72 (tumor-assocd. glycoprotein 72); weak antigens inserted of foreign T cell epitope as vaccines)
Antigens
RL: THU (Therapeuri-Antigens RL: THU vaccines) Transcription factors RL: Mucins RL: Gene, anima Vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (STn antigen; weak antigens inserted with foreign T cell epitope THU (Therapeutic use); BIOL (Biological study); USES (Uses) (TPA (tissue protein antigen); weak antigens inserted with foreign THU (Therapeutic use); BIOL (Biological study); USES (Uses) (STAT3; weak antigens inserted with foreign T cell epitope as THU (Therapeutic use); BIOL (Biological study); (SSX; weak antigens inserted with foreign T cell THU (Therapeutic use); BIOL (Biological study); USES (Uses) (SART-1; weak antigens inserted with foreign T cell epitope USES (Uses) epitope as as

cell epitope as vaccinos)

Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(TRP-1 (tyrosinase-related protein 1); weak antigens inserted with

foreign T cell epitope as vaccinos)

Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(TRP-2 (tyrosinase-related protein 2); weak antigens inserted with

foreign T cell epitope as vaccinos)

Polyoxyalkylenes, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

ROJYWAIKYlenes, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (adjuvants, Freund's; weak antigens inserted with foreign T cell epitope as vaccines)
Immunostimulants Immunostimulants Immunostimulants (adjuvants, Freund's incomplete; weak antigens inserted with foreign cell (adjuvants, ISCOMs; weak antigens inserted with foreign T cell epitope epitope as vaccines) with as Ħ T

T H Drug delivery systems vaccines) weak antigens inserted with foreign T cell epitope as

vaccines)
Diagnosis Transcription factors

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(c-myc; weak antigens inserted with foreign T cell epitope as

Η cancer; weak antigens inserted with foreign T cell epitope

T ij as vaccines)
T cell (lymphocyte)
(cytotoxic, epit Mutation as vaccines) epitope; weak antigens inserted with foreign T cell epitope

ij Neoplasm vaccines) (deletion; weak antigens inserted with foreign T cell epitope as

H Toxoids RL: THU vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (diphtheria, epitope; weak antigens inserted with foreign T cell diagnosis; weak antigens inserted with foreign T cell epitope 86

T H epitope as vaccines)
Glycophosphoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(endoplasmins; weak antigens inserted with foreign T cell ep Toxins vaccines) epitope 98

Η epitope as vaccines)

Drug delivery systems

(epidural; weak antigens inserted with foreign T cell epitope ₽Ľ: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (enterotoxins, heat-labile; weak antigens inserted with foreign T cell

Mucins RL: TH vaccines)

B cell (lymphocyte)
T cell (lymphocyte)
(epitope; weak antigens inserted with foreign T vaccines) THU (Therapeutic use); BIOL (Biological study); USSS (Uses) (episialins; weak antigens inserted with foreign T cell epitope cell epitope

a8

H Hemagglutinins RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

TI Functional groups
(farnesyl; weak antigens inserted with foreign T cell epitope (epitope; weak antigens inserted with vaccines) vaccines) foreign T cell epitope as

H Receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(folate; weak antigens inserted with foreign T cell epitope as vaccines)

H Immunoglobulins RL: THU (Therapeutic use); BIOL (Biological study); USBS (Uses) (fragments; weak antigens inserted with foreign T cell epito epitope 86

Ħ

(antigen; weak antigens inserted with foreign T cell epitope as vaccines)
Proteins, specific or class
RL. BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bcl-2; weak antigens inserted with foreign T cell epitope as

H ī Ţ H ij Ħ H

Animal virus

Bacteria (Eubacteria)

Drug delivery systems (anal; weak antigens inserted with foreign T

Immunostimulants

(adjuvants; weak antigens

inserted with foreign T cell epitope as cell

epitope

vaccines.

Immunostimulants

(adjuvants, Ribi; weak antigens inserted with foreign T cell epitope

H vaccines)

Vascular endothelial growth factor receptors
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (gene KDR; weak antigens inserted with foreign T cell epitope as inserted with foreign T cell epitope as

ij ij II ij H TI Ħ ij ï ij Ţ T ij ij IT Ħ H ij Transferring
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(melanotransferrins; weak antigens inserted with foreign T cell epitope +3 Glycoproteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gp15; weak antigens inserted with foreign T cell epitope as Glycoproteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gp100; weak antigens inserted with foreign T cell epitope a Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(melanoma-assocd., Melan-AMART-1; weak antigens inserted with foreign Protein, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mammaglobin; weak antigens inserted with foreign T cell epitope Hemolysins RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (listeriolysins; weak antigens inserted with foreign T cell epitope Interleukin receptors Interleukin receptors RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (interleukin 13; weak antigens inserted with foreign T cell Phosphoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hsc 70 (heat-shock cognate, 70,000-mol.-wt.); weak antigens inserted
with foreign T cell epitope as vaccines)
Drug delivery systems
(injections, s.c.; weak antigens inserted with foreign T cell epitope
as vaccines) Sialoglycoproteins RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses) (gp75; weak antigens inserted with foreign T cell epitope as Drug delivery systems (intracranial; weak antigens inserted with foreign T cell epitope as Antigens Drug delivery systems Drug delivery systems Functional groups vaccines)
vaccines(1/mphocyte)
cell (1/mphocyte)
(helper cell, epitope; weak antigens inserted with foreign T cell
epitope as vaccines) vaccines) Vaccines) Vaccines (glycosylation site; weak antigens inserted with foreign ${\tt T}$ cell epitope as ${\tt vaccines}$) epitope as vaccines) vaccines) vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (melanoma-assocd., MAGE; weak antigens inserted with foreign T cell (geranyl-geranyl; weak antigens inserted with foreign T cell epitope as intradermal; weak antigens inserted with foreign T cell epitope (intracutaneous; weak antigens inserted with foreign T cell epitope as insertion; weak antigens inserted with foreign T cell epitope 28 epitope as as as 96 Ţ H Ţ H Ţ H Ħ H

Ħ T T Ţ T T ᇽ Ï Mammary gland
Prostate gland
(neoplasm; weak antigens inserted with foreign T cell epitope vaccines) as vaccines)
Functional groups
(myristy); weak antigens inserted with foreign T cell epitope as
vaccines) Microorganism (non-pathogenic; weak antigens inserted with foreign T cell epitope as RL: Chromosome RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (naked; weak antigens inserted with foreign T cell epitope as Chemicals Mucins vaccines) as vaccines) vaccines) vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (mucin 2, 3 and 4; weak antigens inserted with foreign T cell epitope (mucin 2, 3 (modification; weak antigens inserted with foreign T cell (minichromosomes; weak antigens inserted with foreign T cell epitope epitope as 88

as vaccines) Drug delivery systems (oral; weak antigens inserted with foreign T cell epitope as Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pl5; weak antigens inserted with foreign T cell epitope as Liquids vaccines) vaccines) (oils formulation; weak antigens inserted with foreign T cell epitope

Drug delivery systems (parenterals; weak antigens inserted with foreign T cell epitope as Functional groups (palmitoyl; weak antigens inserted with foreign T cell epitope as vaccines)

Drug delivery systems vaccines) (peritoneal; weak antigens inserted with foreign T cell epitope as

Glycolipoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(phosphatidylinositol-contg.; weak antigens inserted with foreign cell epitope as vaccins)

Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
RL: probasins; weak antigens inserted with foreign T cell epitope as

H Glycoproteins, specific or class RL: BSU (Biological study, uncla (Biological study); USES (Uses) Proteins, specific or class RL: BSU (Biological study, uncl (Biological study); USES (Uses) (prostateins; weak antigens inserted with foreign T cell epitope as

unclassified); THU (Therapeutic use); BIOL

unclassified); THU (Therapeutic use); BIOI

H (self; weak antigens inserted with foreign T cell epitope as

H Ħ 1 Ţ ij ij Ţ ij ij Ξ H H T Η ij IŢ Antigens RL: THU (vaccines)
Drug delivery systems
(subdermal; weak antigens inserted with foreign T cell epitope as Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor-assocd., MUM-1; weak antigens inserted with foreign T Antigens RL: THU Toxoids RL: THU Genetic element
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(terminator; weak antigens inserted with foreign T cell epitope Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surface; weak antigens inserted with foreign T cell epitope Drug delivery systems (sublingual; weak antigens inserted with foreign T cell epitope Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor-assocd., G25); weak antigens inserted with foreign T cell epitope as vaccinos)
Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(transmembrane, mesothelin; weak antigens inserted with foreign as vaccines)
Proteins, Specific or class
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) Mutation Anti 2 Antigens **P**. THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., PRAME; weak antigens inserted with foreign T cell epitope as vaccinas) THU (Therapeutic use); BIOL (Biological study); USES (tumor-assocd., NY-ESO-1; weak antigens inserted with epitope as vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., KIAA0205 bladder carcinoma antigen; weak antigens inserted with foreign T cell epitope as vaccines) epitope as vaccines) vaccines) vaccines) epitope as vaccines) epitope as vaccines) epitope as vaccines) epitope as vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tetanus, epitope; weak antigens inserted with foreign T cell epitope vaccines) THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., MIC λ/B ; weak antigens inserted with foreign T cell THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., MAP17; weak antigens inserted with foreign T THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., GAGE; weak antigens inserted with foreign T cell (transfection-facilitating; weak antigens inserted with foreign T cell (substitution; weak antigens inserted with foreign T cell epitope (spinal; weak antigens inserted with foreign T cell epitope as (Uses)
foreign T ce11 cell as cell н 28 cell

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I
                                                           Plasmodium falciparum
Protein sequences
Quillaja saponaria
Vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor-rejection, RAGE-1; weak antigens inserted with foreign T cel
epitope as vaccines)
Complement receptors
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(type 1; weak antigens inserted with foreign T cell epitope as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antigens
RL: BSU (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antigens
RL: THU (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor-assocd., RCAS1; weak antigens inserted with foreign T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor-assocd., Pmel-17; weak antigens inserted with foreign T cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Complement receptors
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(type 2; weak antigens inserted with foreign T cell epitope as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PL:
                                                                                                                                                                                                                                                                                                                                                                                                                  DNA sequences
Dendritic cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd: weak antigens inserted with foreign T cell epitope as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antigens
                       Virus vectors
                                                                                                                                                                            Mycobacterium
Particles
                                                                                                                                                                                                                  Molecular cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cosmids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carriers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteriophage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antigen-presenting
Antitumor agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Animal
                                                                                                                                                                                                                                                             Macrophage
                                                                                                                                                                                                                                                                                   Liposomes
                                                                                                                                                                                                                                                                                                           Latex
                                                                                                                                                                                                                                                                                                                                                                         Epitopes
                                                                                                                                                                                                                                                                                                                                                                                            Encapsulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Animal cell line
                                                                                                                                                         Plasmid
                                                                                                                                                                                                                                          Micelles
                                                                                                                                                                                                                                                                                                                           influenza virus
                                                                                                                                                                                                                                                                                                                                                 mmunotherapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vaccines)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  as vaccines)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   epitope as vaccines)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epitope as vaccines)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., pl61NK4; weak antigens inserted with foreign T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tumor-assocd., ZAG; weak antigens inserted with foreign T \alpha
  (weak antigens inserted with foreign
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cell
T cell epitope
  as vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cell
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ij ij I H Heat-shock proteins
Insulin-like growth factor I receptors
Interleukin 1
Interleukin 12
Interleukin 13
Interleukin 15
Interleukin 2
Interleukin 4
Interleukin 6
Interleukin 6 neu (receptor) p53 (protein) RL: THU (Therap Catenins
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(.beta.-; weak antigens inserted with foreign T cell epitope as Antigens CD40 (ant Transforming growth factors
RL: THU (Therapeutic use); BIOL (Biological study); USES
(.alpha.; weak antigens inserted with foreign T cell CA 125 (carbohydrate antigen)
CD19 (antigen)
CD20 (antigen)
CD22 (antigen)
CD44 (antigen) Osteonectin Plastics, biological studies Platelet-derived growth factor Lipid A Lipids, biological studies Antibodies .alpha.-Fetoproteins RL: BSU (Biological: Carcinoembryonic antigen
Enzymes, biological studies
Epidermal growth factor receptors Promoter (genetic element)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(weak antigens inserted with foreign T cell epitope as vaccines Carbohydrates, biological studies Calreticulin CTLA-4 (antigen) RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (weak antigens inserted with foreign T cell epitope as vaccines Tumor necrosis factors Polymers, biological studies vaccines) (protein)
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
weak antigens inserted with foreign T cell epitope as vaccinos (antigen) (antigen) (antigen) factors (Uses) epitope as

> H H ij ij Ħ vaccines)
> 62031-54-3, FGF
> 62031-54-3, FGF
> RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
> (Biological study); USES (Uses)
> (8a and 8b isoforms; weak antigens inserted with foreign T cell epitope 39391-18-9
> RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
> (2; weak antigens inserted with foreign T cell epitope as Interferons
> RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
> (.gamma.; weak antigens inserted with foreign T cell epitope as Transforming growth factors
> RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
> (.beta.-; weak antigens inserted with foreign T cell epitope as RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Preparation); USES (Uses) (P2 epitope gene; weak antigens inserted with foreign T cell epitope a as vaccines) 264178-47-4P vaccines) 88

ij

Gene, animal

H H RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) 126779-13-(P2 epitope; weak antigens inserted with foreign T cell epitope as

H 126779-14-4P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
RRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses) vaccines)
264155-70-8P
RL: BPN (Biological study, unclassified);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(Preparation); USES (uses)
as vaccines)

Ţ 99-20-7D, Trehalose, diester 7429-90-5, Aluminum, biological studies 9003-25-8, Starch, biological studies 9005-25-8, Starch, biological studies 25322-68-3 53678-77-6, Muramyl dipeptide RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (adjuvan; weak antigens inserted with foreign T cell epitope as vaccines)

(P30 epitope; weak antigens inserted with foreign T cell epitope as

vaccines)

Η 148997-75-5, Androgen-induced growth factor (mouse clone pSC17 precursor reduced) 264179-58-0 264179-59-1, Neu (receptor) (human) 264179-62 264179-64 264179-65-9 264179-66-0 264179-67-1 264179-68-2 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) 264179-62-6

epitope as vaccines) 3458-28-4, Mannose 90 (amino acid sequence; weak antigens inserted with foreign T cell

H ij 3458-28-4, Mannose 9036-88-8, Mannan RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (binding partner; weak antigens inserted with foreign T cell epitope as

vaccines)
56093-23-3
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (fusion with LDL receptor; weak antigens inserted with foreign T
 epitope as vaccines) cell

H 125978-95-2, Nitric oxide synthase
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(inducible; weak antigens inserted with foreign T cell epitope 86

T

9030-23-3, Thymidine phosphorylase RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (inhibitor; weak antigens inserted with foreign T cell epitope

H

vaccines)
14197-41-7, Matrix metalloproteinase
RL: THU (Therapeutic use); BIOL (Biological study); USES
(isoforms; weak antigens inserted with foreign T cell (Uses) epitope as

H vaccines)
100040-73-1, DNA (human clone .lambda.HER2-436 gene HER2 receptor cDNA)
264179-57-9 264179-60-4 264179-61-5 264179-63-7
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; weak antigens inserted with foreign T cell

H epitope as vaccines)
52-90-4, Cysteine, biological studies
RL: BSU (Biological study, unclassific (residue; weak antigens inserted with unclassified); BIOL (Biological study) inserted with foreign T cell epitope a

H vaccines)
217865-15-1
264179-74-0 259127-00-9, 9: PN: US6027895 SEQID: 10 unclaimed DNA 264179-76-2 264179-77-3

PRP (properties) (unclaimed nucleotide sequence; novel methods for therapeutic

vaccination) 179920-34-4

H

ij (unclaimed protein sequence; novel methods for therapeutic vaccination) 64134-30-1 137219-78-4 264134-74-9 264134-75-0 264134-76-1 264134-77-2 264179-75-1 264134-77-2 264179-75-1 RL: PRP (Properties)

H (unclaimed sequence; novel methods for therapeutic vaccination)
264134-70-5P 264134-71-6P 264134-72-7P 264134-73-8P 264134-78-3P
264224-61-5P 264224-76-2P
RL: BPN (Blosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(weak antigens inserted with foreign T cell epitope as vaccines

ij 71965-46-3, Cathepsins 99085-47-9, Complement decay-accelerating factor 147014-97-9, Cyclin-dependent kinase 4 179241-78-2, Caspase 8 RL: BSU (Blological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(weak antigens inserted with foreign T cell epitope as vaccines

H IT 251541-10-3, Human Her2 protein (59-73) 251542-12-8, Human Her2 protein (465-479) 264611-99-4, Human PSM (267-289) 264618-03-3, Human PSM (210-230) 264618-06-6, Human PSM (267-289) 264618-07-7, Human PSM (298-324) 264618-08-8, Human PSM (442-465) 264618-09-9, Human PSM (488-514) 264618-08-8, Human PSM (598-630) 264619-18-3, Human PSM (643-662) 264619-84-3, Human PSM (598-630) 264620-57-7, Human PSM (662-699) 264620-57-7, Human Her2 protein (5-25) 264620-84-0, Human Her2 protein (103-117) 264621-04-7, Human Her2 protein (149-163) 264621-94-5, Human Her2 protein (210-224) 264622-06-2, Human Her2 protein (250-264) 264622-08-4, Human Her2 protein (325-33) 264622-09-5, Human Her2 protein (639-38) 264624-79-5, Human Her2 protein (639-667) 264624-80-8, Human Her2 protein (661-675) 264624-80-8, Human Her2 protein (661-675) 264625-21-2, Human Her2 protein (210-235) 264625-31-8, Human Her2 protein (211-235) 264625-31-8, Human Her2 protein (221-235) 264625-31-8, Human Her2 protein (221-235) 264625-31-8, Human Her2 protein (257-271) 264625-51-6, Human FGF8b protein (1-54) 264626-02-0, Human FGF8b protein (55-58) 264626-17-7,

Human FGF8b protein (178-215) 264626-69-9, Human FGF8b protein (63-68) 264626-82-6, Human FGF8b protein (72-76) 264626-84-8, Human FGF8b protein (85-91) 264626-85-9, Human FGF8b protein (95-102) 264626-85-9, Human FGF8b protein (95-102) 264626-87-1, Human FGF8b protein (115-120) 264627-05-6, Human FGF8b protein (128-134) 264627-07-8, Human FGF8b protein (128-134) 264627-07-8, Human FGF8b protein (128-134) 264627-144) 264627-09-0, Human FGF8b protein (149-154) 264627-10-3, Human FGF8b protein (128-162) 264627-11-3, Human FGF8b protein (173-177) 264627-12-5, Human FGF8b protein (26-45) RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES

(weak antigens inserted with foreign T cell epitope as vaccines

T 3700-67-2 9001-91-6, Plasminogen 9002-10-2, Tyrosinase 9002-61-3, Human chorionic gonadotropin 9032-22-8, Mox1 oxidase 9034-40-6, Gonadotropin-releasing hormone 9081-34-9, 5.alpha. Reductase 50812-37-8, Glutathione S-transferase 60748-06-3, Gastrin 17 62010-37-1, GD3 6598-71-8, GD2 66456-69-7, GM4 66594-14-7, Quil A 80043-53-4, Gastrin-releasing peptide 83588-90-3, N-Retylglucosaminyltransferase V 83869-56-1, GM-CSF 89800-66-8, Heparanase 120178-12-3, Telomerase 127464-60-2, Vascular endothelial growth factor 140208-23-7, Plasminogen activator inhibitor-1 growth factor 140208-23-7, Plasminogen activator inhibitor-1 141256-04-4, QS21 (See); BIOL (Biological study); USES (Uses) (Weak antigens inserted with foreign T cell epitope as vacci

as vaccines

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61512-21-8, Thymosin RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (.beta. 15; weak antigens inserted with foreign T cell epitope as

Ή 9005-80-5, Inulin RL: THU (Therapeutic use); BIOL (Biological study); USES (.gamma.-; weak antigens inserted with foreign T cell (Uses) epitope

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ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS

1999:561238 CAPLUS 132:77288

TI DA LS

Preventive and therapeutic effect of tumor derived heat shock protein, gp96, in an experimental prostate cancer model Yedavelli, S. P. K.; Guo, L.; Daou, M. E.; Srivastava, P. K.; Mittelman, A.; Tiwari, R. K.
Department of Microbiology and Immunology, New York Medical College, Valhalla, NY, 10595, USA International Journal of Molecular Medicine (1999), 4(3), 243-248 CODEN: LJMMFG; ISSN: 1107-3756 International Journal of Molecular Medicine

AB CCC

AB Tumor-derived purified heat shock protein (HSP), gp96, has tumor AB Tumor-derived purified heat shock protective effect in a no. of exptl. cancers that include fibrosarcoma, hepatoma, and spindle cell carcinoma. The rationale for using gp96 as a vaccinating agent stems from the discovery that HSPB, including gp96, chaperone antigenic peptides for eventual recognition and elicitation of an immune response. The immune response generated by the HSP-peptide complex is specific to the tumor from which they are derived. The long-term objective of our studies is to develop a vaccine for primary and metastatic prostate cancer using tumor-derived HSPB. In the present study, we report our results on the tumor protective effect of irradiated Dunning G cells, or purified prepns. of gp96-peptide complexes as a tumor vaccine. Tumor incidence, latency, and tumor growth were the end points of measurement. Tumor bearing Copenhagen rate, made free of disease by surgical resection of the tumors resisted a fresh challenge of

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BOON, T; Adv Cancer Res 1992, V58, P177 CAPLUS
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Davidoff, A; Proc Math Acad Sci USA, 1992, V89, P3439 CAPLUS
Feldwig, A; Int J Cancer 1995, V63, P310
Flynn, G; Nature 1991, V353, P726 CAPLUS live Dunning G tumor cells. Vaccination with irradiated whole cells failed to elicit any resistance to tumor growth. Vaccination with Dunning G derived purified gp96-peptide complexes delayed both incidence and growth of Dunning G induced tumors. Inhibition of tumor growth was obsd. when gp96 was administered after tumor induction. Our data suggests that tumor-derived gp96-peptide complexes can be used as an effective prophylactic and therapeutic agent even in poorly immunogenic cancer such as prostate cancer. Further investigations will det. specificity of action and define the immunol. determinants and exptl. conditions for its optimal activity. Heat-shock proteins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) Antitumor agents Antitumor agents Vaccines Prostate gland Prostate gland ANSWER 7 OF 7 CAPLUS 1996:681225 CAPLUS Antitumor agents (vaccines: preventive and therapeutic effect of tumor-derived heat shock protein gp96 in an exptl. prostate cancer model) 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD (tumor; preventive and therapeutic effect of tumor-derived heat shock protein gp96 in an exptl. prostate cancer model) (neoplasm, inhibitors; preventive and therapeutic effect of tumor-derived heat shock protein gp96 in an exptl. prostate (gp96; preventive and therapeutic effect of tumor-derived heat shock protein gp96 in an exptl. prostate cancer model) (prostate gland; preventive and therapeutic effect of tumor-derived heat shock protein gp96 in an exptl. prostate cancer model) COPYRIGHT 2002 ACS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AB Tumor cells were engineered to express a specific recall antigen mol. to serve as a target for the host's existing memory response, and then used as immunogens as a novel form of cancer vaccine. As recall antigen, the efficiently expressible hybrid protein Heatl was employed, that contains an antigenic fragment of the Mycobacterium bovis 65-kDa heat shock protein (hap65), and thus can be recognized in mice immunized with live Bacillus Calmette-Guerin (BCG) or its derivs. Mouse M-3 melanoma cells were transfected to express Heatl, irradiated, and used as anti-melanoma vaccinas. Vaccination elicited anti-tumor immunity in mice, i.e. a subsequent challenge with the parental wild-type M-3 melanoma cells was rejected. Successful vaccination was dependent on the correct recognition of the recall antigen, since vaccination failed to prevent outgrowth of the challenge in mice possessing no memory response against the recall antigen. The results indicate that expression of a recall antigen can turn tumor cells into powerful vaccines. Using the Heatl protein or other appropriate antigens, this general concept may be applied for human therapy.
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                                                                                                                                                                        FILE 'MEDLINE, CANCERLIT, CAPLUS, BIOSIS, CONFSCI, 09:02:10 ON 26 JUL 2002
26:179 S HEAT (A) SHOCK (A) PROTIEN OR HSP
1481 S CANCER AND L1
21654 S L2 AND CO(A) ADMIN? OR COADMIN?
162 S L2 AND VACCINE?
7 S L4 AND LIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    his
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RL: BAC (Biological activity or effector, except advistudy, unclassified); BIOL (Biological study) (HSP 65; vaccine potential of tumor cells that express a hybrid recall antigens that contains a Mycobacterium bovis 65-kDa heat shock protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer vaccine recall antigen; melanoma
vaccine recombinant heat shock protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Schweighoffer, Tamas
Res. Inst. Mol. Pathol., Vienna, A-1030, Austria
European Journal of Immunology (1996), 26(11), 2559-2564
CODEN: EJIMAF; ISSN: 0014-2980
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neoplasm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mycobacterium bovis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Heat-shock proteins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vaccines
                                        and
                                                                                                                            and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (vaccine potential of tumor cells that express a hybrid recall antigens that contains a fragment of the Mycobac 65-kDa heat shock protein)
                                                                                    d attenuate?
597 Ll AND ATTENUATE?
vaccine?
20 L6 AND VACCINE?
                                                                                                                                                                                                                                                                                                                                                                                                            ON 26 JUL 2002)
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AN 91099427 MEDLINE

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BY 91099427 PUBMED IT 1702727

IN Efficient recognition by rat T cell clones of an epitope of mycobacterial hap 65 inserted in Escherichia coli outer membrane protein PhoE.

hap 65 inserted in Escherichia coli outer membrane protein PhoE.

Hogerorst E J; Agterberg M; Wagenaar J P; Adriaanse H; Boog C J; Van De

Zee R; Van Embden J D; Van Eden W; Tommassen J

Cepartment Immunology, Faculty of Veterinary Medicine, University of Utrecht, The Netherlands.

CS Department Immunology, Faculty of Veterinary Medicine, University of Utrecht, The Netherlands.

SO EUROPEAN JOURNAL OF IMMUNOLOGY, (1990 Dec) 20 (12) 2763-8.

JOURNAL OCOSENMANY: Germany, Federal Republic of Utrecht, Thursle ANSWER 2 OF 2000128272 20128272 Department of Microbiology, Faculty of Medicine, abusalim@hsc.kuniv.edu.kw
Curr Pharm Biotechnol, (2001 Jun) 2 (2) 157-73. 21372748 PubMed ID: 11480420 Biotechnology in the development of new vaccines and diagnostic respents against tuberculosis. Mustafa A S Entered STN: 20000309 Last Updated on STN: 20000309 Entered Medline: 20000224 Journal; Article; (JOURNAL ARTICLE)
English Stulik J; Hernychova L; Macela A; Krocova Z; Kroca M Institute of Radiobiology and Immunology, Purkyne Military Medical Academy, Hradec Kralove, Czech Republic. jstulik@pmfhk.cz FOLIA MICROBIOLOGICA, (1999) 44 (3) 306-10. Journal code: 0376757. ISSN: 0015-5632. 20128272 PubMed ID: 10664887 Production of stress-inducible form of heat-shock protein 70 in mouse peritoneal adherent cells after in vivo infection by Francisella Entered STN: 20011008 Last Updated on STN: 20011008 Entered Medline: 20011004 (REVIEW, TUTORIAL) English Netherlands
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University of Connecticut Health Center, USA PCT Int. Appl., 80 pp.
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TRACT FOR SCS ΡI PRAI Production of stress-inducible form of heat-shock peritoneal adherent cells after in vivo infection tularensis. Efficient recognition by rat T cell clones of an epitope of mycobacterial hap 65 inserted in Escherichia coli outer membrane protein PhoE Hogervorst, Els J. M.; Agterberg, Marja; Wagennaar, Josee P. A.; Adriaanse, Henriette; Beog, Claire J. P.; Van der Zee, Ruurd; Van Embden, Jan D. A.; Van Eden, Willem; Tommassen, Jan der Zee, Ruurd; Van Embden, Jan D. A.; Pac. Vet. Med. Univ. Utrecht, Utrecht, NL-3508 TD, Neth. Eur. J. Immunol. (1990), 20(12), 2763-8 CODEN: EJIMAF; ISSN: 0014-2980 New use of BCG for recombinant vaccines Stover, C. K.; De la Cruz, V. F.; Fuerst, T. L. A.; Bennett, L. T.; Bansal, G. P.; Young, Medimune Inc., Gaithersburg, MD, 20878, USA Nature (London) (191), 351(6326), 456-60 CODEN: NATUAS; ISSN: 0028-0836 Vaccination against autoimmune mouse diabetes with a T-cell epitope of human 65-kDa heat shock protein Elias, Dana; Reshef, Tamara; Birk, Ohad S.; Van der Zee, Ruurd; Walker, Michael D.; Cohen, Irun R. Michael D.; Cohen, Irun R. Sci., Rehovot, 76100, Israel pep. Cell Biol., Wetzmann Inst. Sci., Rehovot, 76100, Israel proc. Natl. Acad. Sci. U. S. A. (1991), 88(8), 3088-91 CODEN: PNASA6; ISSN: 0027-8424 ANSWER 17 OF 20 BIOSIS 2000:52131 BIOSIS PREV200000052131 ANSWER 14 OF 20 CA 1991:447564 CAPLUS 115:47564 E A A 8 ANSWER 16 OF 1991:141068 ANSWER 15 OF 1991:443374 W: AU, CA RW: AT, BE AU 9216657 AU 674491 EP 57544 EP 57547 W 9716680 W 9716680 W 9716681 U 79479 U 79479 U 747119 S 1991-672183 S 1991-672183 S 1992-852307 U 1995-22755 English 9216616 W: AU RW: AT BE, 20 CA CAPLUS 20 CAPLUS CAPLUS CH, 1 T2 A1 A1 A1 B2 A1 B2 A1 A A A A A A1 B2 A1 Y, DE, JP, KR CAPLUS CAPLUS A , DK, ES, 19940623 19970612 19970612 19990826 19990916 20020509 19910320 19920318 19920319 , DK, ES, 19921021 19970102 19931229 19921001 COPYRIGHT 2002 COPYRIGHT 2002 COPYRIGHT 2002 COPYRIGHT F FR, EP 1992-909302 , GB, GR, IT, LI, LL JP 1992-508824 AU 1997-16680 AU 1997-16681 2002 GB, AU WO 1992-US2207 GR , BIOLOGICAL ACS ACS GR, IT, LU, MC, 1992-16657 T. R.; Burlein, J. E.; Benson, ing, J. F.; Lee, M. H.; et al. LI, LU, protein 70 in mouse by Francisella ABSTRACTS 19920319 J, MC, NL, , NL, SE 19920319 19920319 19970402 19970402 19920319 INC S

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                                                                                        Efficient recognition by rat T cell clones of an epitope of mycobacterial hap 65 inserted in Escherichia coli outer membrane protein PhoE. Hogervorst E.J.M.; Agterberg M.; Wagenaar J.P.A.; Adriaanse H.; Boog C.J.P.; Van der Zee R.; Van Embden J.D.A.; Van Eden W.; Tommassen J. Inst. of Infect. Dis./Immunology, Faculty of Veterinary Medicine, University of Utrecht, P.O. Box 80.165,NL-3508 TD Utrecht, Netherlands Buropean Journal of Immunology, (1990) 20/12 (2763-2768).
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HOGERVORSTE E J M; ACTERBERG M; WAGENARN J P A; ADRIANGE H; BORG C J P;
VAN DER ZEE R; VAN EMBDEN J D A; VAN EDEN W; TOMMASSEN J
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UNIV. UTRECHT, P.O. 80. 165, NL-3508 TD UTRECHT, NETHERLANDS.
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(1) Institute of Radiobiology and Immunology, Purkyne Mil Academy, 500 01, Hradec Kralove Czech Republic Folia Microbiologica, (1999) Vol. 44, No. 3, pp. 306-310. ISSN: 0015-5632.
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597 S L1 AND ATTENDATE?
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Priming biologically active antibody responses against an isolated conformational viral epitope by DNA vaccination.
Riedl Petra; El Kholy Shereen; Reimann Jorg; Schirmbeck Reinhold Institute of Medical Microbiology and Immunology, University of Uli S DNA vaccine comprising CpG-containing polynucleotide for treatment or prevention of autoimmune diseases Cohen, Irun R.; Quintana, Francisco J.
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Immunotherapy of cancer using heat shock proteins.
Manjili Masoud H; Wang Xiang-Yang; Park Juneui; Facciponte John G; Repasky Elizabeth A; Subjeck John R
Department of Molecular and Cellular Biophysics, Roswell Park Cancer Institute, Buffalo, New York 14263, USA.
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Institute of Medical Microbiology and Immunology, University of Ulm, Ulm,
Germany. reinhold.schirmbeckGmedizin.uni-ulm.de
FASEB JOURNAL, (2002 Jul) 16 (9) 1108-10.
Journal code: 8804484. ISSN: 1530-6860.
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Noncovalent association with stress protein facilitates cross-priming of CD8+ T cells to tumor cell antigens by dendritic cells.

Kammerer Robert; Stober Detlef; Riedl Petra; Oehninger Claude; Schirmbeck Reinhold, Reimann Jorg

Department of Medical Microbiology, University of Ulm, Helmholtzstrasse JOURNAL OF IMMUNOLOGY, (2002 Jan 1) 168 (1) 108-17.

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Priming polyvalent immunity by DNA vaccines expressing
chimeric antigens with a stress protein-capturing, viral J-domain.
Schirmbeck Reinhold; Kwissa Marcin; Fissolo Nicolas; Elkholy Shereen;
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Wu, Tzyy-choou; Hung, Chien-fu
The Johns Hopkins University School of Medicine,
PCT Int. Appl., 110 pp.
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Birk, Peter; Jensen, Martin Rolar
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Planelles, Lourdes, Thomas, M. Carmen, Alonso, Carlos, Lopez, Manuel C. Departamento de Biologia Molecular, Instituto de Parasitologia y Biomedicina "Lopez Neyra," CSIC, Granada, 18001, Spain Infection and Immunity (2001), 69(10), 6558-6563
CODEN: INFIBR, ISSN: 0019-9567
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Induction of antigen specific CD4+ T cell responses by invariant chain based DMA vaccines
van Tienhoven, E. B., ten Brink, C. T. B.; van Bergen, J.; Koning, F.; van Eden, W.; Broezen, C. P. M.
Institute of Infectious Diseases and Immunology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, 3508 TD, Neth.
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Laboratoire Glaxowellcome, Les Ulis, France.
EUROPEAN JOURNAL OF BIOCHEMISTRY, (2001 Apr)
Journal code: 0107600. ISSN: 0014-2956.
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CODEN: VACCDE; ISSN: 0264-410X
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Gene Therapy (2001), 8(5), 376-383
CODEN: GETHEC; ISSN: 0969-7128
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Curr Pharm Biotechnol, (2001 Jun) 2 (2) 157-73. Ref: 120
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Center of Oncology, Zhujiang Hospital, First Military Medical University,
Canton, 510282, Peop. Rep. China
Mianyixue Zazhi (2001), 17(3, Suppl.), 36-40
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CODEN: PIXXD2
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Laboratories Agency (Weybridge), New Haw, Addlestone, Surrey, KT15 3NB UK
Research in Veterinary Science, (April, 2001) Vol. 70, No. Supplement A.
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Department of Oncology, The Johns Hopkins Medical Institutions, Baltimore, MD, 21287, USA
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Department of Virology, Haartman Institute, University of Helsinki, Helsinki, Film-00014, Finland
Vaccine (2000), 19(9-10), 1256-1265
CODEN: VACCDE; ISSN: 0264-410X
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Department of Medical Molecular Biology, Research Center of Experimental
Medicine, Tongji Medical University, Wuhan, 430030, Peop. Rep. China
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of DNA vaccine potency by linkage
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Chen, C.-H. (1); Wang, T.-L. (1); Hung, C.-F. (1); Yang, Y. (1); Young
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Johns Hopkins Medical Institutions, Baltimore, MD, 21205 USA
Laboratory Investigation., (Jan., 2000) Vol. 80, No. 1, pp. 167A.
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Reimann J; Schirmbeck R
Institute for Medical Microbiology and Immunology, University of Ulm,
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SO CS AU AB CCC AB TI DN L9 ORGN Organism Name animal (Animalia) ORGN Organism Superterms Animals Ţ T H BC **"** CC 15-2 (immunochemistry)

AB Nucleic acid vaccines represent an attractive approach to generating antigen-specific immunity because of their stability and simplicity of delivery. However, there is still a need to increase the potency of DNA vaccines. Using human papillomavirus type 16 E7 as a model antigen, the authors evaluated the effect of linkage to Mycobacterium tuberculosis heat shock protein 70 (HSP70) on the potency of antigen-specific immunity generated by naked DNA vaccines. The authors found that vaccines contg. E7-HSP70 fusion genes increased the frequency of E7-specific CD8+ T cells by at least 30-fold relative to vaccines contg. the wild-type E7 gene. More importantly, this fusion converted a less effective vaccine into one with significant potency against established E7-expressing tumors. Surprisingly, E7-HSP70 fusion vaccines exclusively Carindependent. Thus, fusion of HSP70 to an antigen gene may greatly chance the potency of fusion of HSP70 to an antigen gene may greatly enhance the potency of Cytology and Cytochemistry - Animal *02506
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Department of Oncology, The Johns Hopkins Medical Institutions, Baltimore, MD, 21287, USA 19 23 all Super Taxa Miscellaneous Descriptors Chemicals & Biochemicals Parts, Structures, & Systems of Organisms CD8-positive T-cells: blood and lymphat Cancer Research (2000), 60(4), 1035-1042 CODEN: CNREA8; ISSN: 0008-5472 Major Concepts Mycobacteriaceae 08881 Animalia - Unspecified AACR Subscription Office 2000:160223 CAPLUS 132:306956 ANSWER 23 CD8; E7-HSP70 fusion DNA vaccine: antineoplastic - drug, immunologic - drug, potency; HPV-16 E7: model antigen; HPV-16 gene (Papovaviridae); HPV-16 E7-Mycobacterium tuberculosis HSP -70fusion gene; Mycobacterium tuberculosis HSP-70 gene (Mycobacteriaceae) Molecular Genetics (Biochemistry and Molecular Biophysics); Pharmacology; Tumor Biology Meeting Abstract Animalia OF 40 02616 CAPLUS COPYRIGHT 2002 ACS 33000 lymphatics, 田刀

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Institute of Biochemistry, University of Lausanne, Chemin des 155,CH-1066 Epalinges, Switzerland

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Medical and Dental School, London, GB. thomas.lehner@kcl.ac.uk
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English BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1996 Sep 4) 226 Jacquier-Sarlin M R; Dreher D; Polla B S Laboratoire de Physiologie Respiratoire, UFR Cochin Port-Royal, Paris, Selective induction of the glucose-regulated protein grp78 in human monocytes by bacterial extracts (OM-85): a role for calcium as secon Journal; Article; English ANSWER 6 OF 25 1998452900 Priority Journals; AIDS English Priority Journals United States Institute for Biomedical Aging Research, Austrian Academy of Sciences, Journal code: 0372516. ISSN: 0006-291X. MEDLINE (JOURNAL ARTICLE) (JOURNAL ARTICLE) OBSTETRICS AND GYNECOLOGY, (1999) 7 (1-2) 80-90 second good Ξ AN DN TI TI TI CS CS CY DT E F S L D CY TURE: E PE ES DY CS SO German Journal; Article; (JOURNAL ARTICLE)

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ANSWER 11 OF 25 MEDLINE
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1010 Finduction of arteriosclerosis in normocholesterolemic rabbits
1011 Inmunization with heat shock protein 65.
102 Xu Q, Dietrich H; Steiner H J; Gown A M; Schoel B; Mikuz G; Ka
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GERMANY: Germany, Federal Republic of
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The Austin Research Institute, Australia; The University of Melbourne PCT Int. Appl., 70 pp.
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2001:145156 CAPLUS
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Kuppner, Maria C.; Gastpar, Robert; Gelver,
Ochmann, Oswin; Scharner, Anabel; Issels, Rc
Klinikum Grosshadern, Medical Clinic III, La
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Institute of Field Surgery, Third Military Medical University, Chungking,
400042, Peop. Rep. China
Albao Yu Fenzi Mianyixue Zazhi (2001), 17(6), 562-593
CODEN: XFMZFM; ISSN: 1007-8738
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Liu, Hongwei (1); Anthony, Lawrence S. D. (1); Rowse, Gerald J. (1); Recktenwald, Achim (1); Siegel, Marvin I. (1); Mizzen, Lee A. (1)
(1) StressGen Biotechnologies Corp., 350-4243 Glanford Avenue, Victoria British Columbia, V82 489 Canada

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peptide-specific cytotoxic T lymphocyte response of hepatocellular
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710032, Peop. Rep. China
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CODEN: ZZLIEF; ISSN: 1000-8179
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Nagabhushanam, Vijaya; Praszkier, Judyta; Cheers, Christina
Department of Microbiology and Immunology, University of Melbourne,
Victoria, 3010, Australia
Immunology and Cell Biology (2001), 79(5), 454-461
CODEN: ICBIEZ; ISSN: 0818-9641
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Center for Immunotherapy of Cancer and Infectious Diseases.
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Journal; General Review
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O18 Cardiovascular Diseases and Cardiovascular Surgery
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O29 Clinical Biochemistry
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L. Xi, Division of Cardiology, Department of Internal Medicine, Commonwealth University, Richmond, VA 23298, United States.
Robert, Jacques; Menoret, Antoine; Srivastava, Pramod K.; Cohen, Nicholas Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY, 14642, USA
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Departamento de Parasitologia Sanitaria, Av. Velez Sarsfield 563, Instituto Nacional de Parasitologia Dr. Mario F. Chaben/ANLIS Dr. Carlos G. Malbran, Buenos Aires, 1281, Avgent.
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The ability of near-killed protein is associated with a ANSWER 45 OF 245 C 2001:219779 CAPLUS 135:59871 Entered STN: 20011008 Last Updated on STN: 20011008 Entered Medline: 20011004 Netherlands
Journal; Article; (JOURNAL ARTICLE) Department of Microbiology, Faculty of Medicine, abusalin@hgc.kuniv.edu.kw
Curr Pharm Biotechnol, (2001 Jun) 2 (2) 157-73.
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Brenner BG; Wainberg Z
McGill University, Montreal, Quebec, Canada.. bbrenni@po-box.mcg
Expert Opin Biol Ther, (2001 Jan) 1 (1) 67-77. Ref: 94
Journal code: 101125414 ISSN: 1471-2598.
England: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
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C.B.F. Leti S.A., Spain
PCT Int. Appl., 78 pp.
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Leishmania infantum
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                                                                                                                                      M Amp E Biotech A/s, Den. PCT Int. Appl., 220 pp. CODEN: PIXXD2
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Steinaa, Lucilla; Mouritsen, Soren; Nielsen, Klaus Gregorious; Haaning,
Jesper; Leach, Dana; Dalum, Iben; Gautam, Anand; Birk, Peter; Karlsson,
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ANSWER 53 OF 245 MEDLINE
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Exaggerated human monocyte IL-10 concomitant to minimal TNF-alpha induction by heat-shock protein 27 (Hsp27) suggests Hsp27 is prima antiinflammatory stimulus.

De A K; Kodys K M; Yeh B S; Miller-Graziano C
Department of Surgery, University of Massachusetts Medical School.
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JOURNAL OF IMMUNOLOGY, (2000 Dec 15) 165 (12) 7270-7.
Journal code: 2985117R. ISSN: 0022-1767.
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Heat shock protein expression in human gliomas.
Strik H M; Weller M; Frank B; Hermisson M; Deininger M H; Dichgans
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Liu, Dai-Wei; Tsao, Yeou-Ping; Kung, John T.; Ding, Yu-An; Sytwu,
Huey-Kang; Xiao; Chen, Show-Li
Department of Microbiology and Immunology, National Defense Medical
Center, Taipei, Taiwan
Journal of Virology (2000), 74(6), 2888-2894
CODEN; JOYLAM; ISSN: 0022-538X Worcester 01655, USA.
GM36714-13 (NIGMS)
JOURNAL OF IMMUNOLOGY, (2000 Oct 1) 165 (7) 3951-8.
JOURNAL Code: 2985117R. ISSN: 0022-1767.
United States ANSWER 56 OF 245 CAPLUS COPYRIGHT 2002 ACS 2000:154208 CAPLUS 132:292432 181-8611, Japan Infection and Immunity (2000), 68(6), 3448-3454 CODEN: INFIRE, ISSN: 0019-9567 American Society for Microbiology Immune response against a cross-reactive epitope on the heat shock protein 60 homologue of Helicobacter pylori Yamaguchi, Hiroyuki; Osaki, Takako; Kai, Masanori; Taguchi, Haruhiko; Entered STN: 20000505 Last Updated on STN: 20000505 Entered Medline: 20000424 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. (2000 Mar 28) 97 (7) 3485-90.
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Morol Y: Mayhew M; Trcka J; Hoe M H; Takechi Y; Hartl F U; Rothman J E; Houghton A N Entered STN: 20010322 Last Updated on STN: 20010322 Entered Medline: 20001103 ANSWER 55 OF 245 CAPLUS COPYRIGHT 2002 ACS 2000:359016 CAPLUS Recombinant adeno-associated virus expressing human papillomavirus type Kamiya, Shigeru
Department of Microbiology, Kyorin University School Journal; Article; (JOURNAL ARTICLE)
English ANSWER 54 OF 245 Journal; Article; (JOURNAL ARTICLE) American Society for Microbiology Abridged Index Medicus Journals; Priority Journals 133:103529 Priority Journals 2000202662 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT MEDLINE MEDLINE DUPLICATE of Medicine, Mitaka, 16 AN DN TI NA LI L12 AN ED FS SO SO B C C B SO SS A ED FS CY CS TI DN 212 ANSWER 60 OF 2000325057

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A conserved mycobacterial heat shock protein (hsp) 70 sequence prevents adjuvant arthritis upon nasal administration and induces II-10-producing T cells that cross-react with the mammalian self-fhsp70 homologue.

Wendling U; Paul L; van der Zee R; Prakken B; Singh M; van Eden W Institute of Infectious Diseases and Immunology, Faculty of Veterina Medicine, Urrecht University, The Netherlands.

JOURNAL OF IMMUNOLOGY, (2000 Mar 1) 164 (5) 2711-7.

JOURNAL COde: 298517R. ISSN: 0022-1767.
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20208399 PubMed ID: 10746610
Expression and functional activity of heat shock proteins in human
glioblastoma multiforme.
Hermisson M; Strik H; Rieger J; Dichgans J; Meyermann R; Weller M
Department of Neurology, University of Tubingen School of Medicine.
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Last Updated on STN: 2000
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Journal code: 0401060. ISSN: 0028-3878.
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Paul A G: van Der Zee R: Taams L S: van Eden W
Department of Infectious Diseases and Immunology, Faculty of Veterinary Medicine, Utrecht University, Yalelaan 1, 3584 CL Utrecht, The Immunostimulatory properties of the Leishmania infantum heat shock proteins HSP70 and HSP83 proteins HSP70 and HSP83 Rico, Ana I.; Angel, Sergio O.; Alonso, Carlos; Requena, Jose M. Centro de Biologia Molecular "Severo Ochoa" (CSIC-UAM), Universidad Autonoma de Madrid, Madrid, Spain Molecular Immunology (2000), 2049, Spain Molecular Immunology (2000), Volume Date 1999, 36(17), 1131-1139 CODEN: MOIMD5; ISSN: 0161-5890 Entered STN: 20000915 Last Updated on STN: 20000915 Entered Medline: 20000907 Entered STN: 20000811 Last Updated on STN: 20010521 Entered Medline: 20000801 CIRCULATION RESEARCH, Journal code: 0047103. United States Regalisite role for interleukin-4 in the acceleration of fatty streaks induced by heat shock protein 65 or Mycobacterium tuberculosis. George J. Shoenfeld Y. Gilburd B. Afek A. Shaish A. Hazats D. Research Unit of Autoimmune Diseases, Sheba Medical Center, Tel Hashor ANSWER 63 OF 245 MEDLINE 2000135863 MEDLINE 20135863 PubMed ID: 10671216 Journal; Article; (JOURNAL ARTICLE)
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Utrecht, 3584 CL, Neth.
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Motin, Vladimir L.; De La Maza, Luis M.; Peterson, Ellena M. Department of Pathology, University of California-Irvine, Irvine, CA, 92697-4800, USA
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Dianna Margaret; Webb, Elizabeth
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9633326 PubMed ID: 8757820
16munity against Yersinia enterocolitica by vaccination with Yersinia
HSP60 immunostimulating complexes or Yersinia HSP60 plus interleukin-
Noll A; AutenriethIB
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Suppression of adjuvant arthritis in rats by induction of oral colerance to mycobacterial 65-kDa heat shock protein.
Haque M A: Yoshino S; Inada S; Nomaguchi H; Tokunaga O; Kohashi Department of Microbiology, Saga Medical School, Japan.
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Journal code: 0246127. ISSN: 0019-9567.

United States

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Journal code: 0374672. ISSN: 0019-2805.
Y ENGLAND: United Kingdom
Journal; Article; (JOURNAL Approx.
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1 97073590 MEDLINE
2 97073590 Pubmed ID: 8916299
Anti-heat-shock protein antibodies in rheumati
Tishler M; Shoenfeld Y
I Chilov Hospital, Tel Aviv, Israel.
SEMINARS IN AFMERTIS AND RHEUMATISM, (1996 Oc
Journal code: 1306053. ISSN: 0049-0172.
United States
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Infect. Immun. (1996), 64(3), 818-24
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J. Immunol. (1996), 156(2), 873-9
CODEN: JOIMA3; ISSN: 0022-1767
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Heat shock proteins as immunological carriers and Suzue K; Young R A Whitehead Institute for Biomedical Research, Cambr EXS, (1996) 77 451-65. Ref: 100
Journal code: 9204529.
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Last Updated on STN: 19970128
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Journal; Article; (
General Review; (RE
(REVIEW, TUTORIAL)
English Heat shock proteins and experimental autoimmune encephalomyelitis (EAE):

I. Immunization with a peptide of the myelin protein 2',3' cyclic nucleotide 3' phosphodiesterase that is cross-reactive with a heat shock protein alters the course of EAE.

Birnhaum G; Kotllinek L; Schlievert P; Clark H B; Trotter J; Horvath E; Gao E; Cox M; Braun P E

Department of Neurology, University of Minnesota, Minneapolis 55455, USA.

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Department of Pharmacology, AMGEN Center, Thousand EXS, (1996) 77 359-73. Ref: 69
JOURNAL code: 9204529. A synthetic 10-kD heat shock protein (hsp 10) from Mycobacterium tuberculosis modulates adjuvant arthritis Ragno, S.; Winrow, V. R.; Mascagni, P.; Lucietto, P.; Di Pierro, F.; Ragno, S.; Winrow, V. R.; Mascagni, P.; Lucietto, P.; Di Pierro, F.; Morris, C. J.; Blake, D. R. Mascagni, London, NW7 1AA, UK Rational Institute Medical Research, London, NW7 1AA, UK Clin. Exp. Immunol. (1996), 103(3), 384-90 CODEN; CEXIAL; ISSN: 0009-9104 Entered STN: 19970128 Last Updated on STN: 20000303 Entered Medline: 19981203 Switzerland 97009881 PubMed ID: 8856985 ANSWER 158 OF 245 97009881 MEDL: Entered STN: 19961025 Last Updated on STN: 20000303 Entered Medline: 19961017 Journal; Article; (JOURNAL ARTICLE)
English United States English Priority Journals General Review; Journal; Article; (JOURNAL ARTICLE) Priority Journals 96327000 PubMed ID: 8739158 ANSWER 157 OF 245 Last Updated on STN: 19970128 Entered Medline: 19961203 Entered STN: 19970128 Priority Journals ANSWER 156 OF 245 CAPLUS COPYRIGHT 2002 ACS .24:332284 MEDLINE (REVIEW) (REVIEW) MEDLINE MEDLINE Oaks, DUPLICATE DUPLICATE Š 63 62 USA

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96376997 PubMed ID: 8782846
Regression of arteriosclerotic lesions induced by immunization with heat shock protein 65-containing material in normocholesterolemic, but not hypercholesterolemic, rabbits.
Xu Q: Kleindienst R; Schett G; Waitz W; Jindal S; Gupta R S; Dietrich H;
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T-helper 1 dominated responses to erythrocyte Band 3 in NZB mice.
Shen C R; Mazza G; Perry F E; Beech J T; Thompson S J; Corato A; Newton Barker R N; Elson C J
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Department of Pathology and Microbiology, University of Bristol, UK.
IMMUNDLOGY, (1996 Oct) 89 (2) 195-9.
Journal code: 0374672. ISSN: 0019-2805.
ENGLAND: United Kingdom
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Last Updated on STN: 19970203
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96150286 MEDLINE
96150286 pubMed ID: 8565291
A 71-kD heat shock protein (hsp) from Mycobacterium tuberculosis
                                                                                Entered STN: 19970128
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ATHEROSCLEROSIS, (1996 Jun) 123 (1-2) 145-55.
Journal code: 0242543. ISSN: 0021-9150.
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Selective induction of the glucose-regulated protein grp78 in human monocytes by bacterial extracts (OM-85): a role for calcium as second
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96376997 MEDL
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Laboratoire de Physiologie Respiratoire, UFR Cochin Port-Royal, Paris,
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Douglas B. Publisher: Dekker, New Yo Neth. Entered STN: 19960315 Last Updated on STN: 19960315 Entered Medline: 19960301 ENGLAND: United Kingdom Journal; Article; (JOURNAL ARTICLE) English has modulatory effects on experimental rat arthritis. Kingston A E; Hicks C A; Colston M J; Billingham M E Lilly Research Centre Ltd.. Eil Lilly and Company, Windlesham, CLINICAL AND EXPERIMENTAL IMMUNOLOGY, (1996 Jan) 103 (1) 77-82. Journal code: 0057202. ISSN: 0009-9104. Immunol. Rev. (1996), 149, 55-73 CODEN: IMRED2; ISSN: 0105-2896 Journal; General Review ANSWER 164 OF 245 (1996:249718 CAPLUS T-lymphocyte recognition of hsp 60 in experimental arthritis Anderton, Stephen M.; van Eden, Willem Institute Infectious Diseases and Immunology, University Utr ANSWER 163 OF 245 CAPLUS COPYRIGHT 2002 ACS ANSWER 165 OF 245 96028229 EMBASE English Priority Journals Trends in Biotechnology, (1996) 14/1 (17-20). ISSN: 0167-7799 CODEN: TRBIDM PerSeptive Biosystems, 500 Old Connecticut Path, Framingham, 24:314396 shock proteins: Applications Kingdom Microbiology Immunology, Serology and Drug Literature Index General Review General Review CAPLUS COPYRIGHT 2002 ACS CAPLUS COPYRIGHT 2002 ACS EMBASE COPYRIGHT 2002 ELSEVIER New York, N. Y. Transplantation 'n Editor(s): Van Eden, Willem; Young health and disease. SCI. Utrecht, MA 01701 Surrey, Utrecht, 듯

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Presence of hsp65 in bacterial extracts (Oberance)
orally-induced tolerance?
Polla B S; Baladi S; Fuller K; Rook G
Polla B S; Baladi S; Fuller K; Rook G
Allergy Unit, University Hospital, Geneva,
EXPERIENTIA, (1995 Aug 16) 51 (8) 775-9.
JOURNAL Code: 0376547. ISSN: 0014-4754.
Switzerland
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Utrecht, 3584 CL, Neth.
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Last Updated on STN: 19951005
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JOURNAL COde: 8812164. ISSN: 0896-8411.
ENCLAND: United Kingdom
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Dahlman-Hoglund A.; Dahlgren U.; Ahlstedt S.; Hanson L.A.; Telemo E. Department of Clinical Immunology, Guldhedsgatan 10A,S-41346 Goteborg
ANSWER 177 OF 245

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95357630

MEDLINE
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Specific and long-lasting protection from collagen-induced arthritis and oil-induced arthritis in DA rats by administration of immunogens.
Lorentzen J C: Erlandsson H; Mussener A; Mattsson L; Kleinau S; Nyman U; Klareskog L
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016 Cancer
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Libri Oncologici, (1995) 24/2 (89-102).
ISSN: 0300-8142 CODEN: LBOCB3
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95333024 EMBASE
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95280143 EMBASE
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Journal; Arti
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95207962 EMBASE
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ISSN: 0019-2805 CODEN: IMMUAM
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Drug Literature Index
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Department of Rheumatology, Karolinska Institute,

Stockholm, Sweden.

TI III 8 F F F F G SS ₹ ST TA S United Kingdom
Journal; Genera
004 Microbit
026 Immunoll
031 Arthrit
037 Drug Li Primed avian .gamma..delta. T cells responded to mycobacterial antigens, but show no preference for the 65-kDa heat shock protein Arstila, T. Petteri, Toivanen, Paavo, Lassila, Olli Dep. of Medical Microbiology, Turku Univ., Turku, 20520, Finland Cell. Immunol. (1995), 162(1), 74-9 CODEN: CLIMB8; ISSN: 0008-8749 Journal multiplication in mouse footpads Gelber, R. H.; Mehra, V.; Bloom, B.; Murray, L. Brennan, P. J. English English autoimmunity.

Van der W.; Van der Zee R.; Anderton S.M.; Prakken A.B.J.; Kuis W. Van Eden W.; Van der Department of Immunology, PO Box 80.165,3508 TD Utrecht, Netherland Reviews in Medical Microbiology, (1995) 6/1 (63-69).

ISSN: 0954-139X CODEN: RMEMER SCANDINAVIAN JOURNAL OF IMMUNOLOGY, (1995 JOURNAL CODE: 0322767. ISSN: 0300-9475. ENGLAND: United Kingdom JOURNAL, Article; (JOURNAL ARTICLE) English Anderton, Stephen M.; van Willem Differential mycobacterial 65-kDa heat shock protein T cell epitope recognition after adjuvant arthritis-inducing or protective immunization protocols Infect. Immun. (1994), 62(10), CODEN: INFIBR; ISSN: 0019-9567 Entered STN: 19950921 Last Updated on STN: 20000303 Entered Medline: 19950905 ANSWER 181 OF 245 ANSWER 179 95176682 F ANSWER 178 OF 245 CAPLUS COPYRIGHT 2002 1994:320900 CAPLUS 120:320900 Vaccination with pure Mycobacterium leprae proteins inhibits M. 1994:653245 CAPLUS 121:253245 ANSWER 180 OF Heat-shock proteins as immunodominant microbial 1995:497450 CAPLUS 995176682 ority Journals Vet. Med., Univ. Utrecht, Drug Literature Index Microbiology Immunology, Serology and Arthritis and Rheumatism 79 OF 245 EMBASE General Review 245 California Pacific Med. CAPLUS CAPLUS COPYRIGHT EMBASE COPYRIGHT der COPYRIGHT Zee, Ruurd; Noordzij, Alida; van Eden Utrecht, 4250-5 Transplantation 2002 2002 2002 Center, San Jul) ACS ELSEVIER ACS 42 P.; Siu, P.; Tsang, M.; antigens Ξ SCI. Francisco, CA, 94115, 82-9. В that Netherlands may prevent leprae DY CY CY AN DN AN DN TII AU CS SO SO DT SO SS E M S F Journal English Journal English (REVIEW, English English 122:572 199501

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Journal; Article
General Review;
ANSWER 185 OF 245 MEDLINE
95090434 MEDLINE
95090434 PubMed ID: 7997855
Role of the bowel flora for development of immunity to hsp 65
and arthritis in three experimental models.
Bjork J; Kleinau S; Midtvedt T; Klararskog L; Smedegard G
Department of Pharmacology, Pharmacia Pharmaceuticals, Uppsala,
SCANDINAVIAN JOURNAL OF IMMUNOLOGY, (1994 Dec) 40 (6) 648-52.
JOURNAL CODE: 0323767. ISSN: 0300-9475.
ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
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Joosten, Irma; Wauben, Marca H. M.; Holewijn, Moniek C.; Reske, Pedersen, Lars O.; Roosenboom, Cyril F. P.; Hensen, Evert J.; va Willem; Buus, Soren
Faculty Veterinary Medicine, University Utrecht, Utrecht, 3504 C Int. Immunol. (1994), 6(5), 751-9
CODEN: INIMEN; ISSN: 0953-8178
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World Health Organisation-Immunology Research and Training
Department of Pathology, University of Geneva, Switzerland.
EXPERIENTIA, (1994 Nov 30) 50 (11-12) 1061-6. Ref: 40
Journal code: 0376547. ISSN: 0014-4754.
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Biologicas, Madrid, 2006, Spain
Arthritis Rheum. (1994), 37(10), 1462-7
CODEN: ARHEAW; ISSN: 0004-3591
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Last Updated on STN: 19960129
Entered Medline: 19950112
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95080369 MEDLINE
95080369 PubMed ID: 7527346
HSp70: a carrier molecule with built-in adjuvanticity
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121:131860
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Midtvedt, Tore
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Journal; Article; (JOURNAL ARTICLE)
English
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Department of Surgery (Section of Oncology), University of Wisconsin School of Medicine, Madison.

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Journal code: 9101388. ISSN: 1049-8834.
United States
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